

Appendix D
November 2013 Analytical Results For Proposed Pilot Influent Water

		Station >>	HS			HS-C1			LSS-SP-N		
		Sample >>	SC1113-HS-SW001			SC1113-HSC1-SW001			SC1113-LSSSPN-SW001		
		Date >>	11/13/2013			11/13/2013			11/13/2013		
Analyte	Units	Secondary Chronic	Result	LabQ	ValQ	Result	LabQ	ValQ	Result	LabQ	ValQ
Metals											
Aluminum, Total	mg/L	NA	0.031	U							
Arsenic, Dissolved	mg/L	Acute Eco: 0.34, Chronic Eco: 0.15	0.00035	J							
Barium, Dissolved ^a	mg/L	NA	0.049								
Boron, Total	mg/L	Secondary Chronic: 5	0.0167	J							
Cadmium, Dissolved ^a	mg/L	Acute Eco: 0.002, Chronic Eco: 0.00025	0.00003	U	UJ						
Chromium, Dissolved ^a	mg/L	NA	0.00045	J							
Copper, Dissolved ^a	mg/L	Acute Eco: 0.013, Chronic Eco: 0.009	0.000061	U							
Iron, Total	mg/L	NA	0.023	U							
Lead, Dissolved ^a	mg/L	Acute Eco: 0.065, Chronic Eco: 0.0025	0.000048	U							
Manganese, Dissolved ^a	mg/L	Secondary Chronic: 1.65	0.00027	J	J-						
Nickel, Dissolved	mg/L	Acute Eco: 0.47, Chronic Eco: 0.052	0.00044	J							
Selenium, Dissolved	mg/L	NA	0.0926			0.0869			0.0819		
Selenium, Total	mg/L	Acute Eco: 0.005, Chronic Eco: 0.005	<u>0.095</u>			<u>0.0871</u>			<u>0.0821</u>		
Silver, Dissolved	mg/L	Acute Eco: 0.0032	0.000012	U							
Vanadium, Dissolved	mg/L	NA	0.0016	J							
Zinc, Dissolved ^a	mg/L	Acute Eco: 0.12, Chronic Eco: 0.12	0.0025	J	U						
General Chemistry											
Alkalinity, Total as CaCO ₃	mg/L	NA	198			198			200		
Bicarbonate, as CaCO ₃	mg/L	NA	198			198			200		
Carbonate, as CaCO ₃	mg/L	NA	0	U		0	U		0	U	
Hardness, as CaCO ₃	mg/L	NA	253			247			220		
Calcium, Total	mg/L	NA	61.3			61			53.9		
Magnesium, Total	mg/L	NA	24.4			23.1			20.8		
Nitrate + Nitrite, as N	mg/L	NA	0.325								
Sulfate	mg/L	NA	58.6			51			24.8		
TDS	mg/L	Secondary Chronic: 1134	290			275			229		
TSS	mg/L	NA	2	J							

Notes:

Includes data from the November 2013, fall bi-annual sampling event.

Benchmark values are provided for preliminary comparison purposes only and do not constitute a risk evaluation.

All results reported in milligrams per liter (mg/L).

NA - Benchmark not available.

LabQ – Data qualifier assigned by the laboratory.

ValQ – Data qualifier assigned by the validator.

Laboratory qualifier abbreviations: J - Estimated value reported between the MDL and the PQL; U - Not detected at reported Detection Limit

Validation qualifier abbreviations: J - Estimated; J- -Estimated with a possible low bias; J+ -Estimated with a possible high bias; U - Not detected at reported Detection Limit; UJ - Estimated, not detected

Value equals or exceeds any surface water comparison value. Includes instances when an MDL or PQL exceeds a comparison value. Refer to Table 4.2-2 for additional information.

Acute NRWQC - Acute National Recommended Water Quality Criteria

Chronic NRWQC - Chronic National Recommended Water Quality Criteria

Secondary Chronic - Chronic water quality criteria derived from a state or academic source (Table 4.2-2).

a - The freshwater criterion for this metal is expressed as a function of hardness (mg/L) in the water column. The value given here corresponds to a hardness of 100 mg/L.